

SUPERCHARGING ASSEMBLY FOR AN INTERNAL COMBUSTION ENGINE OF A MOTOR VEHICLE

ABSTRACT

A supercharging assembly increases an amount of air received through an inlet port of an internal combustion engine of a motor vehicle. The motor vehicle has a hood extending thereover. The supercharging assembly includes a lower intake manifold fixedly secured to the internal combustion engine. A blower is operatively connected to the lower intake manifold for forcing air into the lower intake manifold with increased pressure to create charged air. An inlet duct is operatively connected between the inlet port and the blower for directing air into the blower. An output plate is fixedly secured to the lower intake manifold. The output plate mounts the blower to the lower intake manifold. The output plate includes a recessed portion extending down from the lower intake manifold such that the blower is mounted to the recess portion to provide clearance for the hood to move to a closed position over the internal combustion engine.